

1 Claims

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3 1. A variable vibrator mechanism comprising:

4 a first member and a second member arranged
5 telescopically with one another,

6 wherein said first member has a first eccentric
7 weight and said second member has a second eccentric
8 weight,

9 wherein said first and second members are
10 adapted to be engaged with one another, such that
11 the rotational displacement between said first
12 eccentric weight and said second eccentric weight
13 may be varied by varying the longitudinal
14 displacement between said first and second members.

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16 2. A variable vibrator mechanism as claimed in
17 claim 1, wherein one of said first and second
18 members is adapted to receive the other of said
19 first and second members.

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21 3. A variable vibrator mechanism as claimed in any
22 preceding claim, wherein said first and second
23 members are threadably engaged with one another.

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25 4. A variable vibrator mechanism as claimed in any
26 preceding claim, wherein said first and second
27 members are cylindrical.

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29 5. A variable vibrator mechanism as claimed in any
30 preceding claim, wherein the vibrator mechanism
31 comprises two first members arranged telescopically
32 with said second member,

1 wherein said two first members and said second
2 member are adapted to be engaged with one another,
3 such that the rotational displacement between said
4 first eccentric weights and said second eccentric
5 weight may be varied by varying the longitudinal
6 displacement between said first members and said
7 second member.

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9 6. A variable vibrator mechanism as claimed in any
10 preceding claim, wherein further comprising means
11 for telescopically displacing said first and second
12 members.

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14 7. A variable vibrator mechanism as claimed in
15 claim 6, wherein the means for telescopically
16 displacing said first and second members is a
17 hydraulic ram.

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19 8. A variable vibrator mechanism as claimed in any
20 preceding claim, wherein said vibrator mechanism
21 comprises a plurality of pairs of first and second
22 members, wherein each pair of first and second
23 members are arranged telescopically with one
24 another.

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26 9. A vibrating screen machine including a variable
27 vibrator mechanism according to any of claims 1 to
28 8.

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30 10. A vibrating feeder machine including a variable
31 vibrator mechanism according to any of claims 1 to
32 8.